

TITLE CORRECTION – FROM “Mechanical” Engineer to “Materials” Engineer



U.S. Department of Energy

Headquarters

DOEJOBS Online Vacancy Summary



PLEASE NOTE: THIS IS A SUMMARY OF THE ON-LINE VACANCY ANNOUNCEMENT.
TO SEE THE COMPLETE ANNOUNCEMENT AND APPLY FOR THIS POSITION YOU

MUST REGISTER ON LINE AT

[HTTPS://JOBSONLINE.DOE.GOV](https://jobsonline.doe.gov)

Vacancy Announcement Number: 02-NE-50-136QH

Position Title, Series and Grade: Materials Engineer, GS-806-05/07

Promotion Potential: GS-07

Salary: GS-05: \$28,535 – \$35,123 per annum
GS-07: \$35,339 – \$43,493 per annum

Opens: 10/25/2001

Closes: 11/24/2001

Number of positions: More than one position may be filled from this vacancy announcement.

DUTY STATION: Germantown, Maryland

Area of Consideration: All Sources. Applications will only be accepted from U.S. citizens.

Note: Newly appointed supervisors/managers must serve a one-year probationary period. Salary includes 10.23% locality-based adjustment for the Washington-Baltimore area (DC-MD-VA-WV-St. Mary's County, MD).

How to Apply for this Vacancy Announcement:

Applications (resume and application questions) for this vacancy MUST be received on-line via the DOE Jobs ONLINE web site before midnight Eastern Time on the closing date of this announcement.

If you fail to submit a COMPLETE online resume, you WILL NOT be considered for this position. Paper applications WILL NOT be accepted and requests for extensions WILL NOT be granted. All required supplemental application materials will be requested from you through email to be submitted, at that time, via fax. If applying online poses a hardship to any applicant, the Servicing Personnel Office listed on the announcement will provide assistance to ensure that applications are submitted online by the closing date. Applicants must contact the Servicing Personnel Office PRIOR TO THE CLOSING DATE to speak to someone who can provide assistance for online submission. The DOE Jobs ONLINE web site can be accessed at <https://jobsonline.doe.gov/>. Next, click on 'Login to DOE Jobs ONLINE.' A welcome screen will appear, prompting you through the system and allowing you to apply for jobs. New users must click the button marked "New User" and register before being able to use the system.

NOTE: Your answers to questions in your online application will be verified against information you provide on your application and/or by reference checks. The level of education, experience, and/or training you claim must be supported in your application. Falsifying your background, education, and/or experience is cause for not hiring you or for barring you from Federal employment. A complete resume in your online application is mandatory for consideration.

Resume portion of application must be complete with the following information or application may be marked "Ineligible" for this position:

Name

Address

Phone Number

Social Security Number

Dates of All employment listed

Title, Series and Grades (if Federal)

Detailed description of employment experience RELATED to work of position applying for

List and Dates of Education (if applicable)

List and Dates of coursework (if applicable)

DUTIES AND RESPONSIBILITIES:

Incumbent performs a variety of developmental assignments independently and in support of the work carried out by senior technical staff related to the development and use of specialized materials in nuclear power systems. These assignments provide the opportunity for gaining an understanding of the Department of Energy (DOE) and Office of Nuclear Energy, Science and Technology (NE) mission, organization, and interrelationships and for applying theories and principles acquired through academic preparation to activities related to specialized materials in nuclear power systems. Functions in which the incumbent participates include program planning and budgeting, implementation and oversight, technical assistance, and analysis and evaluation. Participates in reviews and meetings focused on the application of refractory metals, advanced alloys, and high temperature insulation in research and development of advanced radioisotope power systems for space and remote terrestrial use.

Participates in developing program planning guidance in the area of specialized materials in nuclear power systems for use by Headquarters, field organizations, and national laboratories in preparing annual materials development and production plans. Participates in reviewing materials development project proposals for technical merit, costs, and scheduling to evaluate selected aspects of such proposals and to increase program and technical knowledge and awareness of constraints on programming and budgeting. Reviews and analyzes reports on program progress and performance and brings to the attention of senior program management problems noted, making recommendations with regard to the correction of such matters. Participates in on-site reviews of laboratories and plants involved in the program, preparing summaries and analyses of reviews with preliminary recommendations regarding solutions to deficiencies, discrepancies, and deviations. Performs portions of analyses, studies, and assessments of program operations; technologies; facilities; materials and equipment; communications; environment, safety, and health; safeguards and security; and/or other areas. Compiles information on program activities for periodic reports and participates in developing documents explaining NE technology program activities.

QUALIFICATIONS:

BASIC REQUIREMENTS:

GS-05: Applicants must meet either A or B below:

A.) A bachelor's or higher degree in professional engineering. To be acceptable, the curriculum must : (1) Be in a school of engineering with at least one curriculum accredited by the Accreditation Board for Engineering and Technology as a professional engineering curriculum; **OR** (2) include differential and integral calculus and courses (more advanced than first-year physics and chemistry) in five of the following seven areas of engineering science or physics: (a) statics, dynamics; (b) strength of materials (stress-strain relationships); (c) fluid mechanics, hydraulics; (d) thermodynamics; (e) electrical fields and circuits; (f) nature and properties of materials (relating particle and aggregate structure to properties); and (g) any other comparable areas of fundamental engineering science or physics, such as optics, heat transfer, soil mechanics or electronics.

OR

B.) A combination of education and experience-college level education, training, and/or technical experience that furnished (1) a thorough knowledge of the physical and mathematical sciences underlying professional engineering, and (2) a good understanding, both theoretical and practical, of the engineering sciences and techniques and their applications to one of the branches of engineering. The adequacy of such background must be demonstrated by **one** of the following:

1. Current registration as a professional engineer in any State, the District of Columbia, Guam, or Puerto Rico. Absent other means of qualifying, applicants who achieved such registration by means other than written test (e.g., State grandfather or eminence provisions) are eligible only for positions that are within or closely related to the specialty field of their registration. For example, an applicant who attains registration through a State Board's eminence provision as a manufacturing engineer typically would be rated eligible only for manufacturing engineering positions. **OR**

2. Having passed the Engineer-In-Training (EIT) examination or the written test required for professional registration, which is administered by the Boards of Engineering Examiners in the various States, the District of Columbia, Guam, and Puerto Rico. **OR**
3. Successful completion of at least 60 semester hours of courses in the physical, mathematical, and engineering sciences, and engineering that included the courses specified in the basic requirements. The courses must be fully acceptable toward meeting the requirements of a professional engineering curriculum as described in paragraph A. **OR**
4. Successful completion of curriculum leading to a bachelor's degree in engineering technology or in an appropriate professional field, e.g. physics, chemistry, architecture, computer science, mathematics, hydrology, or geology, provided that you have had at least 1 year of professional engineering experience acquired under professional engineering supervision and guidance. Ordinarily there should be either an established plan of intensive training to develop professional engineering competence, or several years of prior professional engineering-type experience, e.g., in interdisciplinary positions.

For the GS-07 level, in addition to the basic requirements identified above, applicants must meet one of the following:

- a. One full year of professional engineering experience equivalent to professional engineering work at the GS-05 level in the Federal service, in and one or combination of materials, metallurgical, nuclear, or mechanical engineering; **OR**
- b. One full year of graduate education in any one or combination of materials, metallurgical, nuclear, or mechanical engineering, **OR**
- c. One full year of appropriate student trainee experience or work experience in cooperative work-study educational curriculum, **OR**
- d. An engineering degree with one full year of appropriate engineering technician experience, equivalent to the GS-05 or higher level in the Federal service, in any one or combination of materials, metallurgical, nuclear, or mechanical engineering; **OR**
- e. Successful completion of a 5-year program of study of at least 160 semester hours leading to a bachelor's degree in engineering; **OR**
- f. Meet all requirements of a Federal baccalaureate level student-trainee program, including 1040 hours of experience, 320 hours of which was at the GS-5 level; **OR**
- d. Meet requirements for Superior Academic Achievement. Completion of all the requirements for a bachelor's degree in engineering which meets one of the following:
 1. Graduating in the upper third of the graduating class in your college, university, or major subdivision based on completed courses (e.g., School of Engineering); **OR**
 2. Graduating with a GPA of 2.95 out of a possible 4.0 as recorded on your official transcript or as computed based on 4 years of education; **OR**
 3. Graduating with a GPA of 3.45 or higher out of a 4.0 based on the average of the required courses completed in the major field or required courses in the major field completed during the final 2 years of the curriculum; **OR**

4. Graduating as a member of a national scholastic honor society that meet the requirements of the Association of College Honor Societies.

PRIORITY SELECTION: *DOE Headquarters “surplus” and “displaced” employees*, as defined under the Career Transition Assistance Plan (CTAP), *who are duty-stationed at Headquarters within the commuting area*, who apply for and are determined to be well-qualified* may receive selection priority. A position may be filled within a given Headquarters first-tier organization by a non-surplus and non-displaced employee from that organization when there are no eligible surplus and displaced employees within that organization. *Departmental applicants located outside the Headquarters commuting area*, who are eligible and apply under CTAP provisions, and who are determined to be well-qualified may receive selection priority, though other qualified non-surplus and non-displaced Headquarters commuting area employees can be selected. *Former Headquarters commuting area employees* who are eligible under appropriate reemployment priority list (RPL) procedures may receive selection priority; as well as *Current and Former Federal employees* eligible and who apply under the Interagency Career Transition Assistance Plan (ICTAP). **Employees who are eligible under CTAP, RPL, and ICTAP, as applicable, will be required to provide a copy of their Certificate of Expected Separation, specific reduction-in-force separation notice, or the separation Notification of Personnel Action (SF-50), which officially documents eligibility for special selection priority.** In those recruiting circumstances where it is possible for employees and former employees eligible under all three programs to apply, the order of referral is CTAP applicants, followed in turn by RPL and ICTAP applicants. Special selection priority is **not** offered in circumstances that would result in a promotion; at the discretion of the agency, pay retention may be offered to Departmental employees who accept downgrades through the CTAP program.

* To be considered **well-qualified** under CTAP and ICTAP, an employee must satisfy the following criteria: (1) meet OPM’s eligibility requirements and basic qualification standards, including experience and, as applicable, requirements relative to positive education and certification, as well as selective placement factors; (2) answer all questions related to the position in the DOE Jobs ONLINE system and; (3) is physically qualified with reasonable accommodation.

** To be eligible for selection under RPL procedures, a former Headquarters commuting area employee must either (1) describe their current qualifications for the position, or (2) submit a narrative statement indicating that he or she has the capacity, adaptability, and special skills needed to satisfactorily perform the duties of the position within 90 calendar days.

SPECIAL EMPLOYMENT PROGRAMS: VRA eligibles (for positions at grade 11 and below), 30% disabled veterans, people with disabilities, and others may be eligible to apply under various special employment authorities. Preference eligibles and veterans who have been separated from the armed forces under honorable conditions after 3 years or more of continuous service may apply under the provisions of the Veterans Employment Opportunities Act of 1998. Individuals claiming 5-point preference will be required to submit their DD-214, those claiming 10-point preference will be required to submit in addition an SF-15, “Claim for 10-point Veteran Preference,” and the proofs stipulated

therein. Applicants with disabilities who need reasonable accommodations for any part of the application and hiring process, are asked to notify the agency's Disabilities Coordinator on (202) 586-8562. The decision on granting reasonable accommodations will be on a case-by-case basis. For information on other special employment authorities, please call the above number; TDD users may call (202) 586-5654. Current employees eligible for *priority consideration for repromotion* may be considered; employees will be required to furnish a copy of the SF-50 documenting their eligibility for grade and pay retention via fax (number listed above), and must fully meet all qualifications stipulated in this announcement. **In general: Please identify the announcement and notice number to which you are applying, indicate the special employment authority under which you wish to be considered, and provide all appropriate documentation.**

Questions regarding this announcement should be referred to:

U.S. Department of Energy Headquarters
19901 Germantown Road, Room F-125
Germantown Technical Programs Team, ME-532
Germantown, Maryland 20874
Telephone (301) 903-4994

TYPE OF APPOINTMENT: Competitive

This position is located in:

Office of Nuclear Energy, Science and Technology
Office of Space and Defense Power Systems
Germantown, Maryland

INSTRUCTIONS FOR USING DOE JOBS ONLINE:

The following information will take you step by step through the screens you will need to complete in applying for positions via DOE Jobs Online:

1. Screen: "Welcome to DOE Jobs Online." At this screen click the "New User" button if you are a new user and click "Next" at the bottom of the screen. If not a new user, type in email address and password and click either "Edit Personal Information" or "Go To Jobs" to apply for a position (proceed to number 5).
2. Screen: "User Information." Answer ALL questions and either cut and paste OR type in your resume in the space provided. (System will accept approximately 6 to 7 pages). Click "Next" when all information has been input.

3. Screen: “All Questions require a response to be considered for any position.” Answer ALL questions and click “Continue” at the bottom of the screen.
4. Screen: “Your Registration Information Has Been Saved!” Read information on this screen and then click “Next” at the bottom of the screen when you are ready to apply for a position.
5. Screen: “Welcome (Name)! Please select the link to the organization to which you wish to apply.” Click “US Department of Energy.”
6. Scroll down the listing and select the vacancy you wish to apply to by clicking that announcement number.
7. Screen: Vacancy Announcement. Scroll down to the end of the vacancy announcement and answer ALL questions that follow. Click “Finish” at the bottom of the screen to complete application process.

The DOE Jobs Online system will send a confirmation to your email address that your application has been received if you choose that option.

The U.S. Department of Energy is an Equal Opportunity Employer.